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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18	SEP 11	CA/CAplus enhanced with more pre-1907 records

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:55:37 ON 19 SEP 2006

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:55:44 ON 19 SEP 2006
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STRUCTURE FILE UPDATES: 18 SEP 2006 HIGHEST RN 907539-37-1
DICTIONARY FILE UPDATES: 18 SEP 2006 HIGHEST RN 907539-37-1

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

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=>
Uploading C:\Program Files\Stnexp\Queries\10541527a.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1
MULTIPLE ROLE QUERIES ARE NOT ALLOWED IN A NON-REACTION FILE

=> file casreact

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.65

FILE 'CASREACT' ENTERED AT 17:56:29 ON 19 SEP 2006
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FILE CONTENT:1840 - 17 Sep 2006 VOL 145 ISS 12

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
**********************************************************
*                                                        *
*     CASREACT now has more than 10 million reactions    *
*                                                        *
**********************************************************

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

=> s l1
SAMPLE SEARCH INITIATED 17:56:35 FILE 'CASREACT'
SCREENING COMPLETE -        3 REACTIONS TO VERIFY FROM        2 DOCUMENTS

100.0% DONE       3 VERIFIED       0 HIT RXNS                      0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:         3 TO      163
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1 (     0 REACTIONS)

=> s l1 sss full
FULL SEARCH INITIATED 17:56:48 FILE 'CASREACT'
SCREENING COMPLETE -      188 REACTIONS TO VERIFY FROM       31 DOCUMENTS

100.0% DONE     188 VERIFIED       2 HIT RXNS                      1 DOCS
SEARCH TIME: 00.00.01

L3            1 SEA SSS FUL L1 (     2 REACTIONS)

=> d l3 ibib ab hitstr
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS -------- GI and AB
ALL -------- BIB, AB, IND, RE, Single-step Reactions
APPS ------- AI, PRAI
BIB -------- AN, plus Bibliographic Data
CAN -------- List of CA abstract numbers without answer numbers
CBIB ------- AN, plus Compressed Bibliographic Data
DALL ------- ALL, delimited (end of each field identified)
IABS ------- ABS, indented with text labels
IALL ------- ALL, indented with text labels
IBIB ------- BIB, indented with text labels
IND -------- Indexing data
IPC -------- International Patent Classifications
ISTD ------- STD, indented with text labels
OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

MAX -------- Same as ALL
PATS ------- PI, SO
SCAN ------- TI and FCRD (random display, no answer number.  SCAN
             must be entered on the same line as DISPLAY, e.g.,
```

D SCAN.)
SSRX ------- Single-Step Reactions (Map, Diagram, and Summary for all single-step reactions)
STD -------- BIB, IPC, and NCL

CRD -------- Compact Display of All Hit Reactions
CRDREF ----- Compact Reaction Display and SO, PY for Reference
FHIT ------- Reaction Map, Diagram, and Summary for first hit reaction
FHITCBIB --- FHIT, AN plus CBIB
FCRD ------- First hit in Compact Reaction Display (CRD) format
FCRDREF ---- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)
FPATH ------ PATH, plus Reaction Summary for the "long path"
FSPATH ----- SPATH, plus Reaction Summary for the "short path"
HIT -------- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms
OCC -------- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.
PATH ------- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those whose steps are totally included within another hit reaction which is displayed
RX --------- Hit Reactions (Map, Diagram, Summary for all hit reactions)
RXG -------- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL -------- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)
RXS -------- Hit Reaction Summariers (Map and Summary for all hit reactions)
SPATH ------ Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

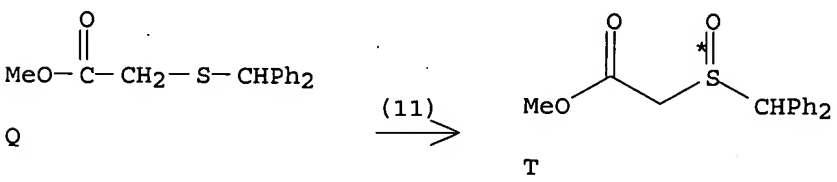
To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):end

=> d fhit ibib abs tot

L3 ANSWER 1 OF 1 CASREACT COPYRIGHT 2006 ACS on STN

RX(11) OF 14 Q ===> T



Q

T

RX(11) RCT Q 118286-24-1

STAGE(1)
CAT 546-68-9 Ti(OPr-i)4, 87-91-2 Di-Et L-tartrate
SOL 108-88-3 PhMe
CON SUBSTAGE(1) 60 minutes, 54 deg C
SUBSTAGE(2) 54 deg C -> 30 deg C

STAGE(2)
RGT M 121-44-8 Et3N
CON 20 minutes, 30 deg C

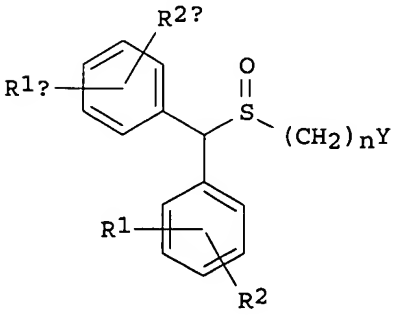
STAGE(3)
RGT D 80-15-9 Cumene hydroperoxide
CON SUBSTAGE(1) 6 - 11 minutes, 30 deg C
SUBSTAGE(2) 24 hours, 30 deg C

PRO T 112111-46-3
NTE stereoselective

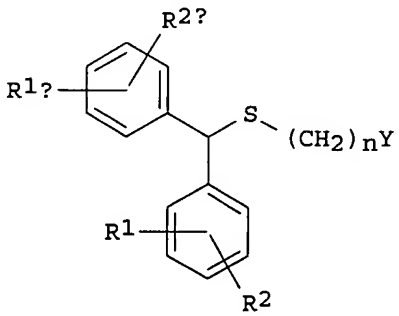
ACCESSION NUMBER: 143:366999 CASREACT
TITLE: Process for enantioselective synthesis of single enantiomers of modafinil by asymmetric oxidation
INVENTOR(S): Rebiere, Francois; Duret, Gerard; Prat, Laurence; Piacenza, Guy
PATENT ASSIGNEE(S): Cephalon, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Ser. No. 943,360.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005222257	A1	20051006	US 2005-82530	20050317
EP 1516869	A1	20050323	EP 2003-292312	20030919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005080256	A1	20050414	US 2004-943360	20040917
PRIORITY APPLN. INFO.:			EP 2003-292312	20030919
			US 2003-507089P	20031001
			US 2004-943360	20040917

OTHER SOURCE(S): MARPAT 143:366999
GI



I



II

AB The invention relates to a method for preparing a sulfoxide compound of formula I [Y = COX wherein X = OR5; R1, R1a, R2 and R2a independently = H, halo, alkyl, alkenyl, etc.; R5 = alkyl, cycloalkyl, aryl, etc.; n = 1-3] either as a single enantiomer or in an enantiomerically enriched form, comprising the steps of: (a) contacting a pro-chiral sulfide of formula II with a metal chiral complex, a base and an oxidizing agent in an organic solvent; and optionally (b) isolating the obtained sulfoxide I.

```
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LOGINID:ssspta1202jxp

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 NEWS  5  MAY 11   KOREAPAT updates resume
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                   INPADOC
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                   and display fields
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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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 NEWS X25      X.25 communication option no longer available

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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:06:06 ON 19 SEP 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21
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STRUCTURE FILE UPDATES:   18 SEP 2006  HIGHEST RN 907539-37-1
DICTIONARY FILE UPDATES:  18 SEP 2006  HIGHEST RN 907539-37-1

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be available.  Please contact CAS Customer Care
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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e methyl 2-diphenylmethylsulfinylacetate/cn
E1            1     METHYL 2-DIMETHYLPHENYLSILYL-3-BUTENOATE/CN
E2            1     METHYL 2-DIPHENYLAMINOBENZOATE/CN
E3            0 --> METHYL 2-DIPHENYLMETHYLSULFINYLACETATE/CN
E4            1     METHYL 2-DODECYLGLYCIDATE/CN
E5            1     METHYL 2-DODECYLOCTADECANOATE/CN
E6            1     METHYL 2-DODECYLOXYBENZOATE/CN
E7            1     METHYL 2-EPI-ZIZA-6(13)-EN-12-OATE/CN
E8            1     METHYL 2-ETHENYL-1-CYCLOPENTENECARBOXYLATE/CN
E9            1     METHYL 2-ETHENYLBENZOATE/CN
E10           1     METHYL 2-ETHOXY-A-(METHYLTHIO)BENZENEACETATE/CN
E11           1     METHYL 2-ETHOXY-1-((2'-(1H-TETRAZOL-5-YL)BIPHENYL-4-YL)METHY
                    L)BENZIMIDAZOLE-7-CARBOXYLATE/CN
E12           1     METHYL 2-ETHOXY-1-PIPERIDINECARBOXYLATE/CN

=> e methyl-2-diphenylmethylsulfinylacetate/cn
E1            1     METHYL-2-CYCLOPENTYLBENZIMIDAZOLE/CN
E2            1     METHYL-2-CYSTEAMINE/CN
E3            0 --> METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
E4            1     METHYL-2-ETHYL FURYL SULFIDE/CN
E5            1     METHYL-2-ETHYLOCTANOATE/CN
E6            1     METHYL-2-HYDROXY-4-NONYLOXYPHENOL KETOXIME/CN
E7            1     METHYL-2-IODO-3-THIOPHENCARBOXYLATE/CN
E8            1     METHYL-2-IODO-9-HYDROXYFLUORENE-9-CARBOXYLATE/CN
E9            1     METHYL-2-MERCAPTOBENZIMIDAZOLE/CN
E10           1     METHYL-2-MERCAPTOPYRIMIDINATOMERCURY/CN
E11           1     METHYL-2-NAPHTHOL/CN
E12           1     METHYL-2-NORBORNYLSILYLBIS(2-ETHYL-4-(1-NAPHTHYL)INDENE)/CN

=> s methyl 2-diphenylmethylsulfinylacetate
      16919372 METHYL
            96 METHYLS
      16919372 METHYL
                  (METHYL OR METHYLS)
```

```
      20933569 2
               0 DIPHENYLMETHYLSULFINYLACETATE
L1             0 METHYL 2-DIPHENYLMETHYLSULFINYLACETATE
                   (METHYL(W)2(W)DIPHENYLMETHYLSULFINYLACETATE)

=> s 2-methyldiphenylmethylsulfinylacetate
      20933569 2
               0 METHYLDIPHENYLMETHYLSULFINYLACETATE
L2             0 2-METHYLDIPHENYLMETHYLSULFINYLACETATE
                   (2(W)METHYLDIPHENYLMETHYLSULFINYLACETATE)

=> e 2-methyldiphenylmethylsulfinylacetate/cn
E1             1      2-METHYLDIPHENYLENE OXIDE/CN
E2             1      2-METHYLDIPHENYLMETHANE/CN
E3             0 --> 2-METHYLDIPHENYLMETHYLSULFINYLACETATE/CN
E4             1      2-METHYLDIPHENYLPYRIDINE/CN
E5             1      2-METHYLDIPHENYLSILYL-1-PHENYL-1-HEXANONE/CN
E6             1      2-METHYLDIPHENYLSILYL-1-PHENYL-1-OCTANONE/CN
E7             1      2-METHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOLE/CN
E8             1      2-METHYLDIPYRIDO(3:2-F:2',3'-H)QUINOXALINE/CN
E9             1      2-METHYLDIPYRROLO(1,2-A:2',1'-C)PYRAZINE/CN
E10            1      2-METHYLDITHIOCARBAZIC ACID METHYL ESTER/CN
E11            1      2-METHYLDITHIOPROPANOIC ACID/CN
E12            1      2-METHYLDITHIOPROPIONIC ACID/CN

=> s 2-diphenylmethylsulfinylacetate/cn
L3             0 2-DIPHENYLMETHYLSULFINYLACETATE/CN

=> e 2-diphenylmethylsulfinylacetate/cn
E1             1      2-DIPHENYLMETHYLPIPERIDINE HYDROCHLORIDE/CN
E2             1      2-DIPHENYLMETHYLPIPERIDINE PICRATE/CN
E3             0 --> 2-DIPHENYLMETHYLSULFINYLACETATE/CN
E4             1      2-DIPHENYLOXYETHYL VINYL ETHER-ISOBUTYL VINYL ETHER-2-METHOX
                      YETHYL VINYL ETHER-4-(2-VINYLOXY)ETHOXYBENZOIC ACID TRIBLOCK
                       COPOLYMER/CN
E5             1      2-DIPHENYLPHOSPHINO-A-PHENYLGLYCINE/CN
E6             1      2-DIPHENYLPHOSPHINO-1,1-BIS(1-METHYL-2-IMIDAZOLYL)ETHANE/CN
E7             1      2-DIPHENYLPHOSPHINO-1,3-DIETHYL-1H-IMIDAZOLIUM TETRAFLUOROBO
                      RATE/CN
E8             1      2-DIPHENYLPHOSPHINO-1,3-DIMETHYL-1H-IMIDAZOLIUM TETRAFLUOROB
                      ORATE/CN
E9             1      2-DIPHENYLPHOSPHINO-1-ETHYL-3-METHYL-1H-IMIDAZOLIUM TETRAFLU
                      OROBORATE/CN
E10            1      2-DIPHENYLPHOSPHINO-1-NAPHTHOIC ACID/CN
E11            1      2-DIPHENYLPHOSPHINO-1-PHENYLETHANONE/CN
E12            1      2-DIPHENYLPHOSPHINO-2'-DIPHENYLPHOSPHINYL-1,1'-BINAPHTHALENE
                      /CN

=> e methyl-2-diphenylmethylsulfinylacetate/cn
E1             1      METHYL-2-CYCLOPENTYLBENZIMIDAZOLE/CN
E2             1      METHYL-2-CYSTEAMINE/CN
E3             0 --> METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
E4             1      METHYL-2-ETHYL FURYL SULFIDE/CN
E5             1      METHYL-2-ETHYLOCTANOATE/CN
E6             1      METHYL-2-HYDROXY-4-NONYLOXYPHENOL KETOXIME/CN
E7             1      METHYL-2-IODO-3-THIOPHENCARBOXYLATE/CN
E8             1      METHYL-2-IODO-9-HYDROXYFLUORENE-9-CARBOXYLATE/CN
E9             1      METHYL-2-MERCAPTOBENZIMIDAZOLE/CN
E10            1      METHYL-2-MERCAPTOPYRIMIDINATOMERCURY/CN
E11            1      METHYL-2-NAPHTHOL/CN
E12            1      METHYL-2-NORBORNYLSILYLBIS(2-ETHYL-4-(1-NAPHTHYL)INDENE)/CN

=> s methyl-2-diphenylmethylsulfinylacetate
      16919372 METHYL
```

```
            96 METHYLS
      16919372 METHYL
                  (METHYL OR METHYLS)
      20933569 2
             0 DIPHENYLMETHYLSULFINYLACETATE
L4           0 METHYL-2-DIPHENYLMETHYLSULFINYLACETATE
                  (METHYL(W)2(W)DIPHENYLMETHYLSULFINYLACETATE)

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      48.12      48.33

FILE 'CAPLUS' ENTERED AT 15:13:17 ON 19 SEP 2006
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FILE COVERS 1907 - 19 Sep 2006  VOL 145 ISS 13
FILE LAST UPDATED: 18 Sep 2006  (20060918/ED)

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They are available for your review at:

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=> s methyl-2-diphenylmethylsulfinylacetate
         979163 METHYL
            662 METHYLS
         979567 METHYL
                   (METHYL OR METHYLS)
         920561 ME
          10433 MES
         927033 ME
                   (ME OR MES)
        1573725 METHYL
                   (METHYL OR ME)
        8880488 2
              2 DIPHENYLMETHYLSULFINYLACETATE
L5            1 METHYL-2-DIPHENYLMETHYLSULFINYLACETATE
                   (METHYL(W)2(W)DIPHENYLMETHYLSULFINYLACETATE)

=> d l5 ibib ab hitstr

L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:568192  CAPLUS
DOCUMENT NUMBER:          141:106271
TITLE:                    Method for preparing methyl 2-
                          diphenylmethylsulfinylacetate
INVENTOR(S):              Rose, Sebastien; Klein, Dominique
PATENT ASSIGNEE(S):       Organisation De Synthese Mondiale Orsymonde, Fr.
SOURCE:                   Eur. Pat. Appl., 16 pp.
                          CODEN: EPXXDW
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DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1437345	A1	20040714	EP 2003-290082	20030113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004203975	A1	20040729	AU 2004-203975	20040108
CA 2512084	AA	20040729	CA 2004-2512084	20040108
WO 2004063149	A1	20040729	WO 2004-IB2	20040108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
EP 1583739	A1	20051012	EP 2004-700742	20040108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1735591	A	20060215	CN 2004-80002147	20040108
JP 2006516560	T2	20060706	JP 2006-500269	20040108
NO 2005003602	A	20050722	NO 2005-3602	20050722
PRIORITY APPLN. INFO.:			EP 2003-290082 A	20030113
			WO 2004-IB2 W	20040108

OTHER SOURCE(S): CASREACT 141:106271

AB Me 2-diphenylmethylsulfinylacetate is prepared in high yield and selectivity by: (i) conversion of benzhydrol into Me diphenylmethylthioacetate by the esterification of benzhydrol into a behydryl carboxylate (e.g., benzhydryl acetate) with a carboxylic anhydride (e.g., acetic anhydride), followed by condensation of the behydryl carboxylate with Me 2-mercaptoacetate; and (ii) oxidation of the Me diphenylmethylthioacetate into methyl-2-diphenylmethylsulfinylacetate with aqueous hydrogen peroxide.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l5 iall

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:568192 CAPLUS
DOCUMENT NUMBER: 141:106271
ENTRY DATE: Entered STN: 16 Jul 2004
TITLE: Method for preparing methyl 2-diphenylmethylsulfinylacetate
INVENTOR(S): Rose, Sebastien; Klein, Dominique
PATENT ASSIGNEE(S): Organisation De Synthese Mondiale Orsymonde, Fr.
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: C07C317-44
SECONDARY: C07C315-02; C07C323-52; C07C319-14
CLASSIFICATION: 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 45
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1437345	A1	20040714	EP 2003-290082	20030113

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

AU 2004203975	A1	20040729	AU 2004-203975		20040108
CA 2512084	AA	20040729	CA 2004-2512084		20040108
WO 2004063149	A1	20040729	WO 2004-IB2		20040108

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ

EP 1583739	A1	20051012	EP 2004-700742		20040108

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1735591	A	20060215	CN 2004-80002147		20040108
JP 2006516560	T2	20060706	JP 2006-500269		20040108
NO 2005003602	A	20050722	NO 2005-3602		20050722
PRIORITY APPLN. INFO.:			EP 2003-290082	A	20030113
			WO 2004-IB2	W	20040108

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1437345	ICM	C07C317-44
	ICS	C07C315-02; C07C323-52; C07C319-14
	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]; C07C0319-14 [ICS,7]; C07C0319-00 [ICS,7,C*]
	IPCR	C07C0315-00 [I,C*]; C07C0315-02 [I,A]; C07C0317-00 [I,C*]; C07C0317-44 [I,A]; C07C0319-00 [I,C*]; C07C0319-14 [I,A]; C07C0323-00 [I,C*]; C07C0323-52 [I,A]
AU 2004203975	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]; C07C0319-14 [ICS,7]; C07C0319-00 [ICS,7,C*]
	IPCR	C07C0315-00 [I,C*]; C07C0315-02 [I,A]; C07C0317-00 [I,C*]; C07C0317-44 [I,A]; C07C0319-00 [I,C*]; C07C0319-14 [I,A]; C07C0323-00 [I,C*]; C07C0323-52 [I,A]
CA 2512084	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0319-14 [ICS,7]; C07C0319-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]
	IPCR	C07C0315-00 [I,C*]; C07C0315-02 [I,A]; C07C0317-00 [I,C*]; C07C0317-44 [I,A]; C07C0319-00 [I,C*]; C07C0319-14 [I,A]; C07C0323-00 [I,C*]; C07C0323-52 [I,A]
WO 2004063149	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]; C07C0319-14 [ICS,7]; C07C0319-00 [ICS,7,C*]
	IPCR	C07C0315-00 [I,C*]; C07C0315-02 [I,A]; C07C0317-00 [I,C*]; C07C0317-44 [I,A]; C07C0319-00 [I,C*]; C07C0319-14 [I,A]; C07C0323-00 [I,C*]; C07C0323-52 [I,A]
EP 1583739	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]; C07C0319-14 [ICS,7]; C07C0319-00 [ICS,7,C*]
	IPCR	C07C0315-00 [I,C*]; C07C0315-02 [I,A]; C07C0317-00 [I,C*]; C07C0317-44 [I,A]; C07C0319-00 [I,C*]; C07C0319-14 [I,A]; C07C0323-00 [I,C*]; C07C0323-52 [I,A]
CN 1735591	IPCI	C07C0317-44 [I,A]; C07C0317-00 [I,C*]; C07C0315-02 [I,A]; C07C0315-00 [I,C*]; C07C0323-52 [I,A];

		C07C0323-00 [I,C*]; C07C0319-14 [I,A]; C07C0319-00 [I,C*]
JP 2006516560	IPCI	C07C0315-02 [I,A]; C07C0317-44 [I,A]; C07C0317-00 [I,C*]; C07C0315-06 [I,A]; C07C0315-00 [I,C*]; A61K0031-165 [I,A]; A61P0025-26 [I,A]; A61P0025-00 [I,C*]
	FTERM	4C206/AA04; 4C206/JA19; 4C206/MA01; 4C206/MA04; 4C206/ZA11; 4H006/AA02; 4H006/AC62; 4H006/AD15; 4H006/AD16; 4H006/BB41; 4H006/BC10; 4H006/BC19; 4H006/BC34; 4H006/TA01; 4H006/TC22
NO 2005003602	IPCI	C07C0317-44 [ICM,7]; C07C0317-00 [ICM,7,C*]; C07C0315-02 [ICS,7]; C07C0315-00 [ICS,7,C*]; C07C0323-52 [ICS,7]; C07C0323-00 [ICS,7,C*]

OTHER SOURCE(S): CASREACT 141:106271

ABSTRACT:

Me 2-diphenylmethylsulfinylacetate is prepared in high yield and selectivity by: (i) conversion of benzhydrol into Me diphenylmethylthioacetate by the esterification of benzhydrol into a behydryl carboxylate (e.g., benzhydryl acetate) with a carboxylic anhydride (e.g., acetic anhydride), followed by condensation of the behydryl carboxylate with Me 2-mercaptoacetate; and (ii) oxidation of the Me diphenylmethylthioacetate into ***methyl*** -2-diphenylmethylsulfinylacetate with aqueous hydrogen peroxide.

SUPPL. TERM: methyl diphenylmethylsulfinylacetate prepn benzhydrol esterification condensation oxidn

INDEX TERM: Hydrocarbons, uses
ROLE: NUU (Other use, unclassified); USES (Uses)
(chloro, solvents; in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Anhydrides
ROLE: CAT (Catalyst use); USES (Uses)
(esterification agents in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Carboxylic acids, preparation
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(esters, Me 2-diphenylmethylsulfinylacetate; method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Condensation reaction
Crystallization
Distillation
Esterification
(in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Oxidizing agents
(in a method for preparing Me 2-diphenylmethylsulfinylacetate from Me diphenylmethylthioacetate)

INDEX TERM: Acids, uses
ROLE: CAT (Catalyst use); USES (Uses)
(inorg.; esterification catalysts in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Oxidation
(liquid-phase; in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: Peroxides, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(oxidants; in a method for preparing Me 2-diphenylmethylsulfinylacetate from Me diphenylmethylthioacetate)

INDEX TERM: Aromatic hydrocarbons, uses

Ethers, uses
Hydrocarbons, uses
ROLE: NUU (Other use, unclassified); USES (Uses)
(solvents; in a method for preparing Me 2 -diphenylmethylsulfinylacetate)

INDEX TERM: 7647-01-0, Hydrogen chloride, uses 7664-38-2, Orthophosphoric acid, uses 7664-93-9, Sulfuric acid, uses 10035-10-6, Hydrogen bromide, uses
ROLE: CAT (Catalyst use); USES (Uses)
(esterification catalyst in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 106-31-0, Butyric anhydride 108-24-7, Acetic anhydride 123-62-6, Propanoic anhydride 2365-48-2, Methyl thioglycolate
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 954-67-6P, Benzhydryl acetate
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 118286-24-1P
ROLE: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(in a method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 91-01-0, Benzhydrol
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 63547-25-1P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(method for preparing Me 2-diphenylmethylsulfinylacetate)

INDEX TERM: 75-91-2, tert-Butyl hydroperoxide 937-14-4, m-Chloroperoxybenzoic acid 3313-92-6, Sodium percarbonate 7722-64-7, Potassium permanganate 7722-84-1, Hydrogen peroxide, reactions 37222-66-5, Oxone
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(oxidant; in a method for preparing Me 2 -diphenylmethylsulfinylacetate from Me diphenylmethylthioacetate)

INDEX TERM: 75-09-2, Dichloromethane, uses
ROLE: NUU (Other use, unclassified); USES (Uses)
(solvent; in a method for preparing Me 2 -diphenylmethylsulfinylacetate)

INDEX TERM: 64-17-5, Ethanol, uses 67-56-1, Methanol, uses 108-21-4, Isopropyl acetate 108-88-3, Toluene, uses 141-78-6, Ethyl acetate, uses 7732-18-5, Water, uses
ROLE: NUU (Other use, unclassified); USES (Uses)
(solvent; in a method for preparing Me 2 -diphenylmethylsulfinylacetate from Me diphenylmethylthioacetate)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD.

REFERENCE(S):
(1) Boschelli, D; US 5571825 A 1996 CAPLUS
(2) Brannigan, L; US 4964893 A 1990 CAPLUS
(3) Farinacci, N; J AM CHEM SOC 1937, V59, P2542 CAPLUS
(4) Fujirebio Kk; JP 08198843 A 1996 CAPLUS
(5) Laboratoire L Lafon; GB 1584462 A 1981 CAPLUS
(6) Lehr, H; J MED CHEM 1963, V6, P136 CAPLUS
(7) Saikawa, I; CHEM PHARM BULL 1985, V33(12), P5534 CAPLUS

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=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.80      64.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -1.50      -1.50

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DICTIONARY FILE UPDATES:  18 SEP 2006  HIGHEST RN 907539-37-1

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  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s 63547-25-1
L6            1 63547-25-1
                (63547-25-1/RN)

=> d l6

L6   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   63547-25-1  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI)  (CA INDEX
     NAME)
OTHER NAMES:
CN   Methyl (benzhydrylsulfinyl)acetate
FS   3D CONCORD
MF   C16 H16 O3 S
LC   STN Files:   CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, USPAT2,
       USPATFULL
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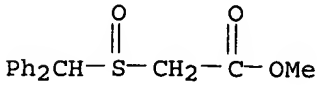

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> e benzhydrol/cn
E1            1     BENZHYDRO (DIPHENYLMETHANOL), THIOBENZOATE/CN
E2            1     BENZHYDROFLUMETHIAZIDE/CN
E3            1 --> BENZHYDROL/CN
E4            1     BENZHYDROL B-DIMETHYLAMINOETHYL ETHER HYDROCHLORIDE/CN
E5            1     BENZHYDROL DILITHIUM SALT/CN
E6            1     BENZHYDROL DIPOTASSIUM SALT/CN
E7            1     BENZHYDROL DISODIUM SALT/CN
E8            1     BENZHYDROL ETHER/CN
E9            1     BENZHYDROL GLUCURONIDE/CN
E10           1     BENZHYDROL IODOCALCIUM SALT/CN
E11           1     BENZHYDROL METHYL ETHER/CN
E12           1     BENZHYDROL, ((TRIFLUOROMETHYL)THIO)CARBAMATE/CN

=> s e3
L7            1 BENZHYDROL/CN

=> d l7

L7   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   91-01-0  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzenemethanol, α-phenyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Benzhydrol (8CI)
OTHER NAMES:
CN   α-Phenylbenzenemethanol
CN   α-Phenylbenzyl alcohol
CN   Benzhydryl alcohol
CN   Benzohydrol
CN   Diphenylcarbinol
CN   Diphenylmethanol
CN   Diphenylmethyl alcohol
CN   Hydroxydiphenylmethane
CN   NSC 32150
FS   3D CONCORD
MF   C13 H12 O
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD,
       CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*,
       EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
       PIRA, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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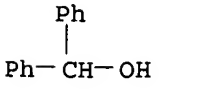

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3055 REFERENCES IN FILE CA (1907 TO DATE)
44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

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            3072 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> d his

     (FILE 'HOME' ENTERED AT 15:06:06 ON 19 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 15:06:21 ON 19 SEP 2006
                E METHYL 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
L1            0 S METHYL 2-DIPHENYLMETHYLSULFINYLACETATE
L2            0 S 2-METHYLDIPHENYLMETHYLSULFINYLACETATE
                E 2-METHYLDIPHENYLMETHYLSULFINYLACETATE/CN
L3            0 S 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
L4            0 S METHYL-2-DIPHENYLMETHYLSULFINYLACETATE

     FILE 'CAPLUS' ENTERED AT 15:13:17 ON 19 SEP 2006
L5            1 S METHYL-2-DIPHENYLMETHYLSULFINYLACETATE

     FILE 'REGISTRY' ENTERED AT 15:18:48 ON 19 SEP 2006
L6            1 S 63547-25-1
                E BENZHYDROL/CN
L7            1 S E3

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    10.76      74.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.50

FILE 'CAPLUS' ENTERED AT 15:22:02 ON 19 SEP 2006
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FILE COVERS 1907 - 19 Sep 2006  VOL 145 ISS 13
FILE LAST UPDATED: 18 Sep 2006  (20060918/ED)

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=> s l6/prep
             9 L6
       3528330 PREP/RL
L8           6 L6/PREP
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(L6 (L) PREP/RL)

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=> s l7
L9        3072 L7

=> s l9 and l8
L10          5 L9 AND L8

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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FULL ESTIMATED COST                                         2.87      77.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                         0.00      -1.50

FILE 'REGISTRY' ENTERED AT 15:22:58 ON 19 SEP 2006
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DICTIONARY FILE UPDATES:  18 SEP 2006  HIGHEST RN 907539-37-1

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  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e methyldiphenylmethylthioacetate/cn
E1            1     METHYLDIPHENYLHYDROXYSILANE/CN
E2            1     METHYLDIPHENYLMETHANE/CN
E3            0 --> METHYLDIPHENYLMETHYLTHIOACETATE/CN
E4            1     METHYLDIPHENYLPHENACYL ARSONIUM FLUOROBORATE/CN
E5            1     METHYLDIPHENYLPHENOXYPHOSPHONIUM IODIDE/CN
E6            1     METHYLDIPHENYLPHOSPHINE/CN
E7            1     METHYLDIPHENYLPHOSPHINE COMPD. WITH BORON TRIBROMIDE(1:1)/CN
E8            1     METHYLDIPHENYLPHOSPHINE COMPD. WITH BORON TRIIODIDE(1:1)/CN
E9            1     METHYLDIPHENYLPHOSPHINE FLUOROSULFONATE/CN
E10           1     METHYLDIPHENYLPHOSPHINE OXIDE/CN
E11           1     METHYLDIPHENYLPHOSPHINE SELENIDE/CN
E12           1     METHYLDIPHENYLPHOSPHINE SULFIDE/CN

=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.88      78.64
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                   0.00      -1.50

FILE 'CAPLUS' ENTERED AT 15:23:53 ON 19 SEP 2006
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FILE COVERS 1907 - 19 Sep 2006  VOL 145 ISS 13
FILE LAST UPDATED: 18 Sep 2006  (20060918/ED)

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=> s methyldiphenylmethylthioacetate
             0 METHYLDIPHENYLMETHYLTHIOACETATE
L11          0 METHYLDIPHENYLMETHYLTHIOACETATE

=> s methyldiphenylmethylthio acetate
             0 METHYLDIPHENYLMETHYLTHIO
        517115 ACETATE
         28185 ACETATES
        528626 ACETATE
                 (ACETATE OR ACETATES)
L12          0 METHYLDIPHENYLMETHYLTHIO ACETATE
                 (METHYLDIPHENYLMETHYLTHIO(W)ACETATE)

=> s methyldiphenylmethylthioacetate
             0 METHYLDIPHENYLMETHYLTHIOACETATE
L13          0 METHYLDIPHENYLMETHYLTHIOACETATE

=> d his

     (FILE 'HOME' ENTERED AT 15:06:06 ON 19 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 15:06:21 ON 19 SEP 2006
                E METHYL 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
L1           0 S METHYL 2-DIPHENYLMETHYLSULFINYLACETATE
L2           0 S 2-METHYLDIPHENYLMETHYLSULFINYLACETATE
                E 2-METHYLDIPHENYLMETHYLSULFINYLACETATE/CN
L3           0 S 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E 2-DIPHENYLMETHYLSULFINYLACETATE/CN
                E METHYL-2-DIPHENYLMETHYLSULFINYLACETATE/CN
L4           0 S METHYL-2-DIPHENYLMETHYLSULFINYLACETATE

     FILE 'CAPLUS' ENTERED AT 15:13:17 ON 19 SEP 2006
L5           1 S METHYL-2-DIPHENYLMETHYLSULFINYLACETATE
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     FILE 'REGISTRY' ENTERED AT 15:18:48 ON 19 SEP 2006
L6             1 S 63547-25-1
               E BENZHYDROL/CN
L7             1 S E3

     FILE 'CAPLUS' ENTERED AT 15:22:02 ON 19 SEP 2006
L8             6 S L6/PREP
L9          3072 S L7
L10            5 S L9 AND L8

     FILE 'REGISTRY' ENTERED AT 15:22:58 ON 19 SEP 2006
               E METHYLDIPHENYLMETHYLTHIOACETATE/CN

     FILE 'CAPLUS' ENTERED AT 15:23:53 ON 19 SEP 2006
L11            0 S METHYLDIPHENYLMETHYLTHIOACETATE
L12            0 S METHYLDIPHENYLMETHYLTHIO ACETATE
L13            0 S METHYLDIPHENYLMETHYLTHIOACETATE

=> s l10 ibib ab hitstr 1-5
MISSING OPERATOR L10 IBIB
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> d l10 ibib ab hitstr 1-5

L10  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:1078273  CAPLUS
DOCUMENT NUMBER:          143:366999
TITLE:                    Process for enantioselective synthesis of single
                          enantiomers of modafinil by asymmetric oxidation
INVENTOR(S):              Rebiere, Francois; Duret, Gerard; Prat, Laurence;
                          Piacenza, Guy
PATENT ASSIGNEE(S):       Cephalon, Inc., USA
SOURCE:                   U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S.
                          Ser. No. 943,360.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   3
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     US 2005222257         A1    20051006    US 2005-82530            20050317
     EP 1516869            A1    20050323    EP 2003-292312           20030919
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2005080256         A1    20050414    US 2004-943360           20040917
PRIORITY APPLN. INFO.:                       EP 2003-292312       A   20030919
                                             US 2003-507089P      P   20031001
                                             US 2004-943360       A2  20040917
OTHER SOURCE(S):          CASREACT 143:366999; MARPAT 143:366999
AB   The invention relates to a method for preparing a sulfoxide compound of formula
     I [Y = COX wherein X = OR5; R1, R1a, R2 and R2a independently = H, halo,
     alkyl, alkenyl, etc.; R5 = alkyl, cycloalkyl, aryl, etc.; n = 1-3] either
     as a single enantiomer or in an enantiomerically enriched form, comprising
     the steps of: (a) contacting a pro-chiral sulfide of formula II with a
     metal chiral complex, a base and an oxidizing agent in an organic solvent;
     and optionally (b) isolating the obtained sulfoxide I.
IT   91-01-0, Benzhydrol
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (process for enantioselective synthesis of single enantiomers of
        modafinil by asym. oxidation of precursor sulfides)
RN   91-01-0  CAPLUS
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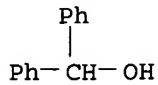
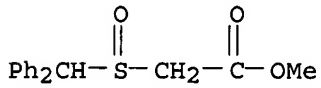
CN Benzenemethanol, α-phenyl- (9CI) (CA INDEX NAME)



IT 63547-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(process for enantioselective synthesis of single enantiomers of modafinil by asym. oxidation of precursor sulfides)
RN 63547-25-1 CAPLUS
CN Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:568192 CAPLUS
DOCUMENT NUMBER: 141:106271
TITLE: Method for preparing methyl 2-diphenylmethylsulfinylacetate
INVENTOR(S): Rose, Sebastien; Klein, Dominique
PATENT ASSIGNEE(S): Organisation De Synthese Mondiale Orsymonde, Fr.
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1437345	A1	20040714	EP 2003-290082	20030113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004203975	A1	20040729	AU 2004-203975	20040108
CA 2512084	AA	20040729	CA 2004-2512084	20040108
WO 2004063149	A1	20040729	WO 2004-IB2	20040108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
EP 1583739	A1	20051012	EP 2004-700742	20040108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1735591	A	20060215	CN 2004-80002147	20040108
JP 2006516560	T2	20060706	JP 2006-500269	20040108
NO 2005003602	A	20050722	NO 2005-3602	20050722
PRIORITY APPLN. INFO.:			EP 2003-290082 A	20030113
			WO 2004-IB2 W	20040108

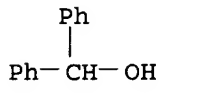
OTHER SOURCE(S): CASREACT 141:106271
AB Me 2-diphenylmethylsulfinylacetate is prepared in high yield and selectivity by: (i) conversion of benzhydrol into Me diphenylmethylthioacetate by the esterification of benzhydrol into a behydryl carboxylate (e.g., benzhydryl acetate) with a carboxylic anhydride (e.g., acetic anhydride), followed by condensation of the behydryl carboxylate with Me 2-mercaptoacetate; and (ii) oxidation of the Me diphenylmethylthioacetate into methyl-2-

diphenylmethylsulfinylacetate with aqueous hydrogen peroxide.

IT 91-01-0, Benzhydrol
RL: RCT (Reactant); RACT (Reactant or reagent)
(method for preparing Me 2-diphenylmethylsulfinylacetate)

RN 91-01-0 CAPLUS

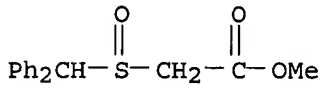
CN Benzenemethanol, α-phenyl- (9CI) (CA INDEX NAME)



IT 63547-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(method for preparing Me 2-diphenylmethylsulfinylacetate)

RN 63547-25-1 CAPLUS

CN Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:407872 CAPLUS

DOCUMENT NUMBER: 93:7872

TITLE: Acetamide derivatives

INVENTOR(S): Lafon, Louis

PATENT ASSIGNEE(S): Laboratoire L. Lafon S. A., Fr.

SOURCE: U.S., 6 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4177290	A	19791204	US 1978-885009	19780309
GB 1584462	A	19810211	GB 1977-13579	19770331
CH 628026	A	19820215	CH 1978-1586	19780214
CA 1091679	A1	19801216	CA 1978-299865	19780328
JP 53121724	A2	19781024	JP 1978-35406	19780329
JP 62009103	B4	19870226		
DK 7801408	A	19781001	DK 1978-1408	19780330
DK 152207	B	19880208		
DK 152207	C	19880711		
BE 865468	A1	19781002	BE 1978-56817	19780330
ES 468378	A1	19781216	ES 1978-468378	19780330
NL 7803432	A	19781003	NL 1978-3432	19780331
NL 188692	B	19920401		
NL 188692	C	19920901		

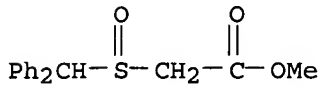
PRIORITY APPLN. INFO.: GB 1977-13579 A 19770331

OTHER SOURCE(S): MARPAT 93:7872

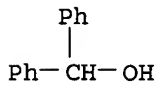
AB Acetamides R2CHSOCH2CONHR1 (R = Ph or, independently, Ph substituted by 1 or more F, Cl, Br, CF3, NO2, NH2, C1-4 alkyl or alkoxy, or OCH2O; R1 = H, C1-4 alkyl or hydroxyalkyl, or QNR2R3, where Q = C1-4 alkylene, R2, R3 = H or C1-4 alkyl), which had central nervous system activity, were prepared

Thus, Ph2CHSCH2COCl (prepared from the acid) was treated with NH4OH and the amide was oxidized by H2O2 to give Ph2CHSOCH2CONH2, which produced hyperactivity and hypermotility in mice with absence of stereotypy.

IT 63547-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 63547-25-1 CAPLUS
CN Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 91-01-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiourea and chloroacetic acid)
RN 91-01-0 CAPLUS
CN Benzenemethanol, α-phenyl- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:22644 CAPLUS
DOCUMENT NUMBER: 90:22644
TITLE: Acetamide derivatives
INVENTOR(S): Lafon, Louis
PATENT ASSIGNEE(S): Laboratoire L. Lafon S. A., Fr.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2809625	A1	19781005	DE 1978-2809625	19780306
DE 2809625	C2	19850509		
GB 1584462	A	19810211	GB 1977-13579	19770331
CH 628026	A	19820215	CH 1978-1586	19780214
CA 1091679	A1	19801216	CA 1978-299865	19780328
JP 53121724	A2	19781024	JP 1978-35406	19780329
JP 62009103	B4	19870226		
DK 7801408	A	19781001	DK 1978-1408	19780330
DK 152207	B	19880208		
DK 152207	C	19880711		
BE 865468	A1	19781002	BE 1978-56817	19780330
ES 468378	A1	19781216	ES 1978-468378	19780330
NL 7803432	A	19781003	NL 1978-3432	19780331
NL 188692	B	19920401		
NL 188692	C	19920901		

PRIORITY APPLN. INFO.: GB 1977-13579 A 19770331

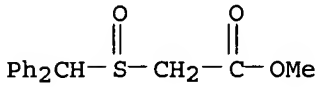
AB Acetamide derivs. I (R = the same or different halo, CF3, NO2, NH2, C1-4-alkyl or -alkoxy, methylenedioxy; R1 = H, C1-4-alkyl or -hydroxyalkyl, or R2R3NQ1, where R2 and R3 = H or alkyl, or R2R3N = a 5-7-membered heterocyclyl and Q1 = C1-4-alkylene; Q = CHSO or NCO; n =

0-5), which were active central nervous system depressants in tests on mice and rats, were prepared Thus, Ph2CHSCH2COCl were treated with NH3, then oxidized by H2O2 to give Ph2CHSOCH2CONH2.

IT 63547-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, and reaction with ammonia)

RN 63547-25-1 CAPLUS

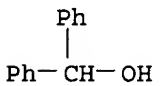
CN Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 91-01-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiourea and chloroacetic acid)

RN 91-01-0 CAPLUS

CN Benzenemethanol, α-phenyl- (9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:534596 CAPLUS
DOCUMENT NUMBER: 87:134596
TITLE: Benzhydrylsulfinyl derivatives
INVENTOR(S): Lafon, Louis
PATENT ASSIGNEE(S): Laboratoire L. Lafon, Fr.
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2642511	A1	19770414	DE 1976-2642511	19760922
DE 2642511	C2	19860731		
CA 1079275	A1	19800610	CA 1976-262096	19760927
FR 2326181	A1	19770429	FR 1976-29137	19760928
FR 2326181	B1	19800808		
DK 7604375	A	19770403	DK 1976-4375	19760929
DK 151009	B	19871012		
DK 151009	C	19880229		
AT 347426	B	19781227	AT 1976-7208	19760929
BE 846880	A1	19770401	BE 1976-171191	19761001
FI 7602810	A	19770403	FI 1976-2810	19761001
FI 63220	B	19830131		
FI 63220	C	19830510		
SE 7610940	A	19770403	SE 1976-10940	19761001
SE 431088	B	19840116		
SE 431088	C	19840426		
NL 7610929	A	19770405	NL 1976-10929	19761001
NL 187629	B	19910701		
NL 187629	C	19911202		
NO 7603372	A	19770405	NO 1976-3372	19761001

NO 143219	B	19800922			
NO 143219	C	19810107			
ES 452063	A1	19771001	ES 1976-452063		19761001
SU 651693	D	19790305	SU 1976-2404903		19761001
PL 105506	P	19791031	PL 1976-192811		19761001
HU 175109	P	19800528	HU 1976-LA894		19761001
CS 200195	P	19800829	CS 1976-6356		19761001
IL 50599	A1	19800916	IL 1976-50599		19761001
JP 52046058	A2	19770412	JP 1976-118908		19761002
JP 60045186	B4	19851008			
US 4127722	A	19781128	US 1977-821312		19770803
AT 346828	B	19781127	AT 1977-6492		19770909
AT 349026	B	19790312	AT 1977-6493		19770909
AT 7706493	A	19780815			
AU 511619	B2	19800828	AU 1976-18188		19780929
PRIORITY APPLN. INFO.:			GB 1975-40419	A	19751002
			US 1976-728054	A3	19760930
			AT 1976-7208	A	19770909

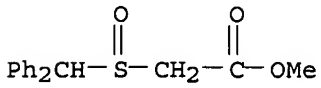
OTHER SOURCE(S): MARPAT 87:134596

AB Ph2CHSO(CH2)nR [I; R = CONHOH, C(:NH)NHOH, 4,5-dihydro-1H-imidazol-2-yl, morpholino, piperidino; n = 1, 2, 3] were prepared as the free bases or hydrochlorides and had useful pharmaceutical properties. Thus, Ph2CHBr treated with thiourea and NaOH gave 97.5% Ph2CHSH, which was treated with ClCH2CO2H and NaOH to give 79% Ph2CHSCH2CO2H; the acid was converted to the Et ester (93% yield), which was treated with H2NOH.HCl and KOH, yielding 87.5% Ph2CHSCH2CONHOH, and this was oxidized by H2O2 to give 73% I (R = CONHOH, n = 1), which showed antipyretic, anticonvulsant, and anticholinergic activity when tested on rats.

IT 63547-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, and reaction with hydroxylamine and sodium hydroxide)

RN 63547-25-1 CAPLUS

CN Acetic acid, [(diphenylmethyl)sulfinyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 91-01-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiourea and chloroacetic acid, sulfide from)

RN 91-01-0 CAPLUS

CN Benzenemethanol, α-phenyl- (9CI) (CA INDEX NAME)